

Wencon UW Coating for wet surfaces or under water

Excellent liquid coating for applying on wet surfaces or under water, with a very good adhesion.

- Can be applied on wet surfaces or under water
- Cures under water and on wet surfaces
- Efficient double coat system
- Long pot-life under water
- Strong adhesion to all metal surfaces

General information

The Wencon UW Coating is a two-component product, to be applied on wet surfaces or under water. The UW Coating is ideal for repair of ballast- and cooling pipes, in connection with Wencon reinforcement tape. Developed for repair jobs which, due to high humidity, have to be done in wet conditions.

After curing, Wencon UW Coating will provide a smooth, nonporous coating, which is resistant to bi-metallic corrosion, light chemical attack, corrosion and impingement. Wencon UW Coating contains no solvents.

Wencon UW Coating is a double coat system and is consequently supplied in two different colours, orange and brown.

Application areas

Typical applications are coatings of steel surfaces rebuild with Wencon UW Cream, and coatings under water - like ships hulls and/ or other submerged structures, tanks, pipes etc. Examples of repairs under extreme conditions could be: on-site repair of sea-water filter housings etc. unable to achieve a dry surface. The UW Coating is also used for scratched painting on hulls in splash-zones and under water.

Mixing

Wencon UW Coating has to be mixed above water in the mixing ratio 1:2 by volume.



Product numbers:

No. 1035	Wencon UW Coating, orange, 0,5 kg (1.1 lb) unit
No. 1036	Wencon UW Coating, brown, 0,5 kg (1.1 lb) unit

IMPA no.

812336
812327

ISSA no.

75.553.92
N/A

WENCON®

GENERAL DESCRIPTION

Two-component solvent free liquid coating, for protection against corrosion and bi-metallic corrosion, erosion as well as impingement. The coating can be applied under water.

SURFACE PREPARATION

When Wencon UW coating is applied on top of Wencon UW Cream, it has to be applied when the layer of UW Cream is still tacky.

When applying to an old steel surface under water, the surface must be cleaned for loose paint, scales, under water growth, etc. A mechanical cleaning will do, if possible, use hydro-jetting for the best result.

MIXING RATIO

Mix by volume 1:2. Mix until an even colour is obtained. The mixing has to take place above water. After mixing, the product can be taken into the water.

POT LIFE

Depending on amount mixed and the temperature. Mixed in small amounts, the pot life is approximately 25-35 minutes at 20°C. (68°F)

APPLYING

Wencon UW Coating is applied using a spatula, brush or roller. If the temperature is low – use a brush with short bristles. If the temperature is high, use brush with long bristles. The initial wetting of the brush/roller has to take place above water

OVERCOATING

Wencon UW Coating is a double coat system. The overcoating time can vary from one to three hours, depending on the temperature. The second layer has to be applied while the first layer is still tacky. The time will vary from 2-6 hours.

CURING TIME

Curing will take place in 10-18 hours, but only if the temperature allows it to cure. Curing requires a temperature of at least 10°C (50°F), but better at 17-23°C (62-73°F) or higher.

If the coating shall be exposed to chemicals, let it cure for 7 days before exposure.

REDUCED CURING TIME WITH INFRARED

This product is tested with and suitable for infrared curing. Curing with infrared radiation can reduce curing time significantly. Result can vary, depending on circumstances and equipment used.

MACHINABILITY

After curing, the product can be machined, drilled and worked like metal.

COVERAGE RATE

Approximately 0,8 sq. m. per kg per coat. (0,4 lb/sq. ft)

TECHNICAL DATA

Hardness Shore D: 79 (**DIN 53505**)

Tensile strength: 37,5 N/mm² - 5336 p.s.i. (**DIN 53454**)

Compressive strength:

Modulus of elasticity: 3117 N/mm² - 443,000 p.s.i. (**DIN 53454**)

Rcrack: 133 N/mm² - 19,000 p.s.i. (**DIN -53454**)

Shear adhesion: 31,90 N/mm² - (**ASTM D1002**)

Adhesion to steel: 7,5 N/mm² - (**ISO 4624**)

SPECIFIC VOLUME

535 ccm per kilogramme (34,2 cu inch/kg)

TEMPERATURE RESISTANCE

Corrosion or heavy load: 60°C (140°F)

Light or no load: 100°C (212°F)

As filling compound: up to 160°C (320°F)

CHEMICAL RESISTANCE

The coating is resistant to oil, water, saltwater and most diluted acids and alkalis as well as a range of solvents.

SHELF LIFE

At 20°C (68°F) : 3 years

HANDLING PRECAUTIONS

Read the Wencon Instruction for Use and the Material Safety Data Sheet.